

IN THE CLAIMS:

1. (cancelled)

2. (cancelled)

3. (cancelled)

4. (cancelled)

5. (currently amended) [The catalyst system of claim 1], A catalyst system comprising:

a) a group 4 organometallic catalyst having at least one halide ligand;

b) a solid zirconium acid component; and

c) a metal alkyl.

wherein said solid zirconium acid comprises zirconium, oxygen and at least one of sulphur or phosphorus.

6. (original) The catalyst system of claim 5 wherein said solid zirconium acid is prepared by reacting 1) at least one zirconium complex selected from the group consisting of:

zirconium acetate, zirconium acetate hydroxide, zirconium basic carbonate, zirconyl chloride, zirconium hydrogenphosphate, zirconium hydroxide, zirconium sulfate, zirconyl nitrate;

with 2) at least one selected from the group consisting of: fluorophosphoric acid, monosodium fluorophosphates, disodium fluorohosphate, trifluoromethane sulfonic acid, phosphoric acid, and sulfuric acid.

7. (cancelled)

8. (cancelled)

9. (cancelled)

10. (cancelled)

11. (cancelled)

12. (cancelled)

13. (cancelled)

14. (currently amended) [The process of claim 10] A process for the polymerization of olefins in the presence of a catalyst system comprising:

- a) a group 4 organometallic catalyst having at least one halide ligand;
- b) a solid zirconium acid component; and
- c) a metal alkyl.

wherein said solid zirconium acid comprises zirconium, oxygen and at least one of sulphur or phosphorus.

15. (currently amended) The [catalyst system] process of claim 14 wherein said solid zirconium acid is prepared by reacting 1) at least one zirconium complex selected from the group consisting of:

zirconium acetate, zirconium acetate hydroxide, zirconium basic carbonate,
zirconyl chloride, zirconium hydrogenphosphate, zirconium hydroxide,
zirconium sulfate and zirconyl nitrate,

with 2) at least one reagent selected from the group consisting of:

fluorophosphoric acid, monosodium fluorophosphate, disodium fluorophosphate,
trifluoromethane sulfonic acid, phosphoric acid and sulfuric acid.

16. (cancelled)

17. (cancelled)

18. (cancelled)